

IFWO

RAW SEQUENCE LISTING

DATE: 07/28/2004

PATENT APPLICATION: US/09/545,998

TIME: 14:14:16

Input Set : N:\Crf3\RULE60\09545998.raw Output Set: N:\CRF4\07282004\1545998.raw

SEQUENCE LISTING

	3	(1) GENE	RAL I	NFORMATION:
	5	(i)	APPL	ICANT: Gorman, Daniel M.
	6			Randall, Troy D.
	7			Zlotnik, Albert
	9	(ii)	TITL	E OF INVENTION: MAMMALIAN CELL SURFACE ANTIGENS; RELATED
	10			REAGENTS
	12	(iii)	NUMB	ER OF SEQUENCES: 8
	14	(iv)	CORR	ESPONDENCE ADDRESS:
	15			ADDRESSEE: DNAX Research Institute
	16		\ — <i>T</i>	ADDRESSEE: DNAX Research Institute STREET: 901 California Avenue CITY: Palo Alto STATE: California COUNTRY: USA ZIP: 94304-1104
	17			CITY: Palo Alto
	18			STATE: California
	19			COUNTRY: USA
	20			212. 31301 2101
	22	(v)		UTER READABLE FORM:
	23			MEDIUM TYPE: Floppy disk
	24			COMPUTER: IBM PC compatible
	25			OPERATING SYSTEM: PC-DOS/MS-DOS
	26			SOFTWARE: PatentIn Release #1.0, Version #1.30
	28	(vi)		ENT APPLICATION DATA:
C>				APPLICATION NUMBER: US/09/545,998
C>				FILING DATE: 10-Apr-2000
W>				CLASSIFICATION: 536
C>		(vii)		R APPLICATION DATA:
	33			APPLICATION NUMBER: US/08/911,423
	34			FILING DATE: 14-AUG-1997
	37			APPLICATION NUMBER: US 60/023,419
	38			FILING DATE: 16-AUG-1996
	41 42			APPLICATION NUMBER: US 60/027,901 FILING DATE: 07-OCT-1996
a .		(2 4 4)		RNEY/AGENT INFORMATION:
C>	45	(V111)		NAME: Ching, Edwin P.
	46			REGISTRATION NUMBER: 34,090
	47			REFERENCE/DOCKET NUMBER: DX0612K
C>		(+ ++)		COMMUNICATION INFORMATION:
C,	50	(IX)		TELEPHONE: 650-852-9196
	51			TELEFAX: 650-496-1200
	54	(2) INEO		ON FOR SEQ ID NO: 1:
	56			ENCE CHARACTERISTICS:
	57	(1)		LENGTH: 1073 base pairs
	58			TYPE: nucleic acid
	59 59			STRANDEDNESS: single
	שב כ		(0)	Ditamonotico. Single

DATE: 07/28/2004 TIME: 14:14:16 PATENT APPLICATION: US/09/545,998

60			(D) TC	POLC	GY:	line	ar										
62		.(ii)	MOL	ECUL	E TY	PE:	CDNA											
65		(ix)	FEA	TURE	E :						-							
66			(A) NA	WE\K	EY:	CDS											
67			(P) LC	CATI	ON:	68	751										
70	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1: CTCGAGATCC ATTGTGCTGG AAAGGGAACT CCTGAAATCA GCCGACAGAA GACTCAGGAG													•				
																		60
	AAGC	ACT	ATG															109
75				Gly	Ala	Trp	Ala	Met	Leu	Tyr	Gly		Ser	Met	Leu	Cys		
76			1				5					10		~~~		~~~		
			GAC															157
		Leu	Asp	Leu	Gly		Pro	Ser	Val	Val		Glu	Pro	GIY	Cys			
80	15					20			~ ~ ~		25	. am	~~~	maa	maa	30		205
			AAG															205
	Pro	GLY	Lys	Val		Asn	GIY	ser	GIA		Asn	Thr	Arg	Cys		ser		
84	~~~		~~~		35		a. a	~~~	mar	40		~ A A	1 00	maa	45	mam		252
			GCT															253
	Leu	Tyr	Ala		GIY	ьуs	GIU	Asp		Pro	ьуs	GIU	Arg		тте	Cys		
88	~=~		~~	50	mn o	a	mam	~~~	55	0.CIT	an a	шаа	70 70 70	60	таа	7.7.0		301
			CCT															301
	vaı	Thr	Pro	GIU	Tyr	HIS	cys		Asp	PIO	GIII	Cys	ду S	116	Cys	цур		
92	an a	ma a	65	maa		CON	aaa	70	N C C	CTIC	CNC	m/rm		CCC	СУП	יי איזייטי		349
			CCC															349
	HIS	_	Pro	Cys	GIII	PIO	85	GIII	Arg	var	GIU	90	GIII	GIY	Asp	116		
96	CTC.	80	GGC	ጥጥረ	ccc	тст		ccc	ጥርሞ	ccc	አጥር		ACC	ጥጥር	TCC	GCA		397
			Gly															337
100			Gry	FILE	Arg	100		AIA	СуБ	AIG	105		1111	1110	001	110		
			ר מגר	' GGT	י ראר			רידים	י ייינוני	: אכר			тс	г сас	יידיי ד	r GGA		445
																e Gly		-
104	_	***	, ,,,,,	, 01,	115		, 3	100		120		. 012			125			
		CTC	C ACC	ATO			GGG	AAC	. AAG			CAA :	GC.	r GTO		CATC		493
																: Ile		
108				130			- 1		135					140				
		GAG	G CCA			ACI	GAG	CAA			CAT	TTG	AC:	r GTO	CATO	TTC		541
																e Phe		
112			145					150			•		159					
		GTO	ATG	GCI	GCA	TGC	: ATT	TTC	TTC	CTA	A ACC	ACA	GT	CAC	G CTC	GGC		589
																ı Gly		
116		160				-	165					170		,				
				TGG	CAG	CTG	AGG	AGG	CAA	CAC	CATO	G TGT	CCC	CGA	A GAC	3 ACC		637
																ı Thr		
	175			_		180					185					190		
			A TTC	GCG	GAG	GTG	CAG	TTG	TCF	GCT	r GAG	GAT	GC	r TGC	AGG	TTC		685
																Phe		
124					195					200		_			205			
126	CAG	TT	CCI	GAG	GAG	GAF	CGC	GGG	GAG	CAC	G ACA	A GAA	GA/	AA A	G TGT	CAT		733
																: His		
128	3			210)				215	;				220)			

DATE: 07/28/2004 TIME: 14:14:16

PATENT APPLICATION: US/09/545,998

		GGG Gly					TGAC	GCCI	GG 1	CTTC	CTCI	rg To	CCCC	CAAG	С		781
132			225							-							
	4 CAGACGCTAC AAGACTTGCC CAGCTATACC CTTGGTGAGA GCAGGGGCCA TGCTCTGCAC 6 CCTTCCCTGG GCCTGGCCCT GCTCCCCTCA ACAGTGGCGG AAGTGGGTGT ATGAGAGCGG														841		
																	901
																AGGGT	961
																CACTTG	- 1021
										GCCG	CGG	AGGC	CGA	YT"I	ÇC	5° 0	1073
		INFO															
		(i)								3 <u></u>							
148				-				nino	acıc	າຣ							
149					PE:												
	150 (D) TOPOLOGY: linear 152 (ii) MOLECULE TYPE: protein																
		(11) (xi)							rr∩ 1	רם אור	. 2						
154													Len	Cvs	Val	Leu	
157		GIĀ	АТА	пр	A 1a	Mec	пеа	1 7 1	Gry	10	DCI	ricc	шса	Cyb	15	Dea	
		Lon	G137	Gln.	_	Ser	Val	Val	Glu		Pro	Glv	Cvs	Glv	Pro	Glv	
160	Asp	пeп	Gry	20	110	DCI	var	vui	25	010		017	012	30		1	
	Tara	17 a 1	Gln		Glv	Ser	Glv	Asn		Thr	Ara	Cvs	Cvs		Leu	Tvr	
163	пуъ	vaı	35	Non	Gry	DCI	O-1	40	11011		5	012	45			- 1	
	Δla	Pro		Lvs	Glu	Asp	Cvs		Lvs	Glu	Ara	Cvs	Ile	Cys	Val	Thr	
166	AIG	50	OL y	בעב	014		55		-1-		5	60		- 1			
	Pro		Tvr	His	Cvs	Glv		Pro	Gln	Cvs	Lvs	Ile	Cys	Lys	His	Tyr	
	65	014	-1-		-1-	70	<u>F</u>			- 2	75		•	-		80	
		Cvs	Gln	Pro	Gly	Gln	Arq	Val	Glu	Ser	Gln	Gly	Asp	Ile	Val	Phe	
172		-1-			85		2			90		-	_		95		
	Glv	Phe	Arq	Cys	Val	Ala	Cys	Ala	Met	Gly	Thr	Phe	Ser	Ala	Gly	Arg	
175				100			•		105					110			
177	Asp	Gly	His	Cys	Arg	Leu	Trp	Thr	Asn	Cys	Ser	Gln	Phe	Gly	Phe	Leu	
178			115					120					125				
180	Thr	Met	Phe	Pro	Gly	Asn	Lys	Thr	His	Asn	Ala	Val	Cys	Ile	Pro	Glu	
181		130					135					140					
183	Pro	Leu	Pro	Thr	Glu	Gln	Tyr	Gly	His	Leu		Val	Ile	Phe	Leu		
184	145					150					155					160	
186	Met	Ala	Ala	Cys	Ile	Phe	Phe	Leu	Thr		Val	Gln	Leu	Gly	Leu	His	
187					165					170	_	_	~ 3	_,	175	_	
189	Ile	\mathtt{Trp}	Gln		Arg	Arg	Gln	His		Cys	Pro	Arg	Glu		Gln	Pro	
190		_		180		_	_		185	_			0	190		DI	
		Ala		Val	Gln	Leu	Ser		Glu	Asp	Ala	Cys		Pne	Gln	Pne	
193			195					200	1	~7	~ 3	T	205	***	۳	G1	
			Glu	Glu	Arg	GLY		GIn	Thr	GIU	GIU		Cys	HIS	Leu	GIA	
196		210		_			215					220					
		Arg	Trp	Pro													
	225		. n	n + c -	700	ar.	T										
	(2)							NO:									
203		(1)						ISTI(× a							
204								base		LS							
205			()	B) T	IPE:	nuc.	reic	acio	ı								

DATE: 07/28/2004 0/545,998 TIME: 14:14:16

PATENT APPLICATION: US/09/545,998

206						EDNE		_	gle										
207																			
209																			
212																			
213				-	•														
214	A A A A A A A A A A A A A A A A A A A														-				
217	እሞር												СТС	TGC	GGC	CTG	- ,:		48
										Phe									
221	1	AIa	GIII	1113	5	AIG	ricc	O ₁	7124	10	*****	1114		~ <i>1</i> ~	15				
		CTG	CTG	TGC	_	CTC	AGC	CTG	GGT	CAG	CGC	CCC	ACC	GGG	GGT	CCC			96
										Gln									
225				20					25					30	-				
	GGG	TGC	GGC	CCT	GGG	CGC	CTC	CTG	CTT	GGG	ACG	GGA	ACG	GAC	GCG	CGC			144
										Gly									
229	-	-	35		_	_		40					45						
231	TGC	TGC	CGG	GTT	CAC	ACG	ACG	CGC	TGC	TGC	CGC	GAT	TAC	CCG	GGC	GAG			192
232	Cys	Cys	Arg	Val	His	Thr	\mathtt{Thr}	Arg	Cys	Cys	Arg	Asp	Tyr	Pro	Gly	Glu			
233		50					55					60							
										TGT									240
236	Glu	Cys	Cys	Ser	Glu	Trp	Asp	Cys	Met	Cys		Gln	Pro	Glu	Phe				
237	65					70					75					80			
										CGG									288
	Cys	Gly	Asp	Pro		Cys	Thr	Thr	Cys		Hıs	His	Pro	Cys		Pro			
241				~~~	85	maa	a . a	aaa		90	7 CIT	mmm	ccc	mm/C	95 CAC	TO T			336
										TTC									330
	GIY	GIN	GIY		GIII	ser	GIII	GIY	LуS 105	Phe	Ser	PHE	GIY	110	GIII	СуБ			
245	n ma	CAC	Tr.Carr	100	TCC	CCC	አርር	ጥጥር		GGG	GGC	CAC	GAA		CAC	TGC			384
247	TIO	Acn	Cve	Ala	Ser	Glv	Thr	Phe	Ser	Gly	Glv	His	Glu	Glv	His	Cvs			
249	116	лър	115	AIU	DCI	OI y	1111	120	DCI	017	017		125	1		- 2			
	ααα	CCT		ACA	GAC	TGC	ACC		TTC	GGG	TTT	CTC	ACT	GTG	TTC	CCT			432
										Gly									
253	-1	130			-	•	135			-		140							
	GGG	AAC	AAG	ACC	CAC	AAC	GCT	GTG	TGC	GTC	CCA	GGG	TCC	CCG	CCG	GCA			480
										Val									
257	145					150					155					160			
										CTC									528
260	Glu	Pro	Leu	Gly	Trp	Leu	Thr	Val	Val	Leu	Leu	Ala	Val	Ala		Cys			
261					165					170					175				
										GGA									576
264	Val	Leu	Leu	Leu	Thr	Ser	Ala	Gln	Leu	Gly	Leu	His	Ile		Gln	Leu			
265				180					185			~_ ~	~-~	190	~~~	ama			c 0 4
267	AGG	AGT	CAG	TGC	ATG	TGG	CCC	CGA	GAG	ACC	CAG	CTG	CTG	CTG	GAG	GTG			624
	Arg	Ser		Cys	Met	Trp	Pro		Glu	Thr	GIn	ьeu		ьeu	Glu	val			
269			195	. ~~~	a	a	000	200	*~~	maa	C 7 C	mm.c	205	an a	G X Y	CAC			672
										TGC									0/2
	Pro		ser	Thr	Glu	Asp		arg	ser	Cys	GIN		PLO	GIU	GIU	GIU			
273		210					215					220							

DATE: 07/28/2004 TIME: 14:14:16 PATENT APPLICATION: US/09/545,998

275 276 277	Arg	GGC Gly	GAG Glu	CGA Arg	TCG Ser	GCA Ala 230	GAG Glu	GAG Glu	AAG Lys	GGG Gly	CGG Arg 235	CTG Leu	GGA Gly	GAC Asp	CTG Leu	TGG Trp 240	720
		TGAG	CCTC	GC (GTC		G GC	3CCA	CCGA	CGC		CAGC	CCCT	rccc	CAG		773
280	Val																
283	GAGC	TCCC	CA C	3GCCC	CAG	G G	CTCTC	CGT	CTC	GCTCT	rggg	CCGC	GCC	CTG (CTCC	CCTGGC	833
285	AGCA	GAAG	TG C	GTG	CAGG	AA GO	GTGG	CAGTO	ACC	CAGC	CCC	TGG	ACCAT	rgc A	AGTT(CGGCGG	- 893
287	CCGC	TCTA	AAA C	GAT	CAAC	C T	racgi	racgo	GTO	CAT(CGA	CGTC	ATAC	CT C	OTTO.	TATAGT	953 1006
										raca.	ACGT	CCTC	ACTO	FUG A	AAA		1006
	(2)			ONENC STON													
294 295		(1 /		A) LE						ds							
296				3) TY													
297) TO													
299		(ii)		LECUI													
301										ID N							
303	Met	Ala	Gln	His	Gly	Ala	Met	Gly	Ala	Phe	Arg	Ala	Leu	Cys		Leu	
304	1				5					10					15	_	
306	Ala	Leu	Leu		Ala	Leu	Ser	Leu		Gln	Arg	Pro	Thr		GLY	Pro	
307	_			_20		_	_	_	25	~1 .	m1	al	III la ac	30	77.	7.50	
	Gly	Cys		Pro	GIY	Arg	Leu		Leu	Gly	Thr	GIY	45	Asp	Ala	Arg	
310	Crra	Cara	35	17 - 1	Uic	Thr	Thr	40	Cvc	Cys	Ara	Asn		Pro	Glv	Glu	
312	-	50	Arg		птъ		55	Arg	Cys	Cys	nrg	60	- 7 -		011	024	
			Cvs	Ser	Glu	Trp		Cvs	Met	Cys	Val		Pro	Glu	Phe	His	te i tease
316	65	CID	O _I o			70	-	- 2		•	75					80	
	Cys	Gly	Asp	Pro	Cys	Cys	Thr	Thr	Cys	Arg	His	His	Pro	Cys	Pro	Pro	
319	-	_	_		85					90					95		
321	Gly	Gln	Gly	Val	Gln	Ser	Gln	Gly	Lys	Phe	Ser	Phe	Gly		Gln	Cys	
322				100	_		_,		105	~ 7	a1	***	a 1	110	TT	Crra	
	Ile	Asp	_	Ala	Ser	GLY	Thr		Ser	Gly	GIY	HIS	125	GIY	HIS	Cys	
325	T	D	115	mbac	7 an	Crra	Thr	120	Dha	Gly	Dhe	T.e.u		Val	Phe	Pro	
327	ьys	130	ттр	1111	Asp	Суб	135	GIII	FIIC	Gry	FILE	140	1111	Val	1110	110	
	Glv		Lvs	Thr	His	Asn		Val	Cvs	Val	Pro		Ser	Pro	Pro	Ala	
	145	11011	_,_		,	150			- 4		155	•				160	
		Pro	Leu	Gly	Trp	Leu	Thr	Val	Val	Leu	Leu	Ala	Val	Ala	Ala	Cys	
334					165					170					175		
336	Val	Leu	Leu	Leu	Thr	Ser	Ala	Gln	Leu	Gly	Leu	His				Leu	
337				180					185					190			_
	Arg	Ser	Gln	Cys	Met	Trp	Pro		Glu	Thr	Gln	Leu		Leu	Glu	Val	•
340			195			_		200	_	_	~ 1	73	205	a 1	a 1	a 3	
	Pro		Ser	Thr	Glu	Asp		Arg	Ser	Cys	GIn		Pro	GIU	GIU	GIU	
343	70	210	a 1	7. *-~	202	7.1 -	215	ر1،.	Larc	Gl v	Δνα	220 Leu	Glv	Agn	Len	Tro	
	_	СТΆ	GIU	AIG	ser	230	GIU	GIU	ьуѕ	Gly	235	ъeи	GIY	чор	псα	240	
	225 Val					230					دري						
	(2)	INF	ORMA'	TION	FOR	SEO	ID 1	NO:	5:								
353				QUEN													
_		•															

VERIFICATION SUMMARY

DATE: 07/28/2004

PATENT APPLICATION: US/09/545,998

TIME: 14:14:17

Input Set : N:\Crf3\RULE60\09545998.raw Output Set: N:\CRF4\07282004\I545998.raw

L:29 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:] L:30 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:] L:35 M:238 W: Alpha Fields not Ordered, Reordered [(C) CLASSIFICATION:] of (1)(vi) L:36 M:220 C: Keyword misspelled or invalid format, [(vii) PRIOR APPLICATION DATA:] L:40 M:220 C: Keyword misspelled or invalid format, [(vii) PRIOR APPLICATION DATA:] L:44 M:220 C: Keyword misspelled or invalid format, [(viii) ATTORNEY/AGENT INFORMATION:] L:49 M:220 C: Keyword misspelled or invalid format, [(ix) TELECOMMUNICATION INFORMATION:]